



SUBSTITUTION OF ASPHALT SHINGLES MSP03-01A

1.0 Description. This specification covers the use of asphalt shingles in Secs 301, 401 and 402 bituminous mixes.

2.0 Shingles. Up to 5 percent of asphalt shingles may be substituted in lieu of mineral aggregate.

3.0 Material Requirements. Asphalt shingles shall be in accordance with Sec 1002 for deleterious and other foreign material.

4.0 Mix Design Requirements. Bituminous mixes utilizing asphalt shingles will require binder testing of the shingle asphalt to determine the appropriate grade of virgin binder. The combined binders shall meet the grade specified in the contract. Binder testing shall be performed at the target asphalt content for the proposed mixture and at 0.5 percent below the target. Specimens for testing shall be prepared by blending asphalt extracted from the shingles with the virgin binder in proportions representative of the asphalt mixture. Test results of the binder blends and virgin binder shall be submitted with the job mix formula.

5.0 Basis of Payment. The contract unit price for asphalt binder and aggregate will be full compensation for asphalt shingles.